

FORM PTO-1449
(REV. 7-80)

MAY 2 1 2002

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

MAY 2 1 2002

ATTY. DOCKET NO.
100886.401C12

APPLICATION NO.
10/058,821

Sheet 1 of 6

INFORMATION DISCLOSURE STATEMENT

(Use separate sheets if necessary)

APPLICANTS
Orest W. Blaschuk et al.

FILING DATE
January 29, 2002

GROUP ART UNIT
Not Yet Assigned

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SSM	AA	5,231,082	07/27/93	Schasteen	514	11	
BZH	AB	5,352,667	10/04/94	Lider et al.	514	19	
SSM	AC	5,510,628	04/23/96	Georger, Jr. et al.	257	32	
SSM	AD	5,585,351	12/17/96	Ranscht	514	12	
SSM	AE	5,591,432	01/07/97	Bronson et al.	424	130.1	
SSM	AF	5,646,250	07/08/97	Suzuki	530	350	
SSM	AG	5,665,590	09/09/97	Yang	435	6	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
SSM	AH	EP 406 428 B1	01/09/91	EPO		
SSM	AI	WO 91/04745	04/18/91	PCT		
SSM	AJ	WO 92/08731	05/29/92	PCT		
SSM	AK	WO 94/11401	05/26/94	PCT		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SSM	AL	Alexander et al., "An N-Cadherin-Like Protein Contributes to Solute Barrier Maintenance in Cultured Endothelium," <i>Journal of Cellular Physiology</i> 156: 610-618, 1993.
SSM	AM	Ali et al., "Conformationally Constrained Peptides and Semipeptides Derived from RGD as Potent Inhibitors of the Platelet Fibrinogen Receptor and Platelet Aggregation," <i>J. Med. Chem.</i> 37(6): 769-780, 1994.
SSM	AN	Beesley et al., "The post-synaptic density: putative involvement in synapse stabilization via cadherins and covalent modification by ubiquitination," <i>Biochemical Society Transactions</i> 23: 59-64, 1995.
SSM	AO	Blakemore, "Remyelination of CNS axons by Schwann cells transplanted from the sciatic nerve," <i>Nature</i> 266: 68-69, 1977.
SSM	AP	Blaschuk et al., "A novel cadherin antagonist (Exherin) blocks human ovarian tumor growth in nude mice," <i>Molecular Biology of the Cell</i> 10: 72A, November 1999.

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SM	BA	6,031,072		Blaschuk et al			
SM	BB	6,169,071		Blaschuk et al			
	BC	6,207,639		Blaschuk et al			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
SM	BD	WO 96/40781	12/19/96	PCT		
SM	BE	WO 97/07209	02/27/97	PCT		
SM	BF	WO 98/02452	01/22/98	PCT		
SM	BG	WO 98/45319	10/15/98	PCT		
SM	BH	WO 99/33875	7/8/99	WIPO		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

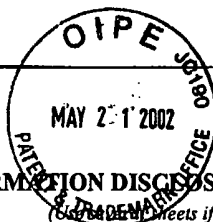
SM	BI	Blaschuk and Farookhi, "Estradiol Stimulates Cadherin Expression in Rat Granulosa Cells," <i>Developmental Biology</i> 136: 564-567, 1989.
SM	BJ	Blaschuk et al., "E-Cadherin, estrogens and cancer: is there a connection?" <i>The Canadian Journal of Oncology</i> 4(4): 291-301, 1994.
SM	BK	Blaschuk et al., "Identification of a Cadherin Cell Adhesion Recognition Sequence," <i>Developmental Biology</i> 139: 227-229, 1990.
SM	BL	Blaschuk et al., "Identification of a Conserved Region Common to Cadherins and Influenza Strain A Hemagglutinins," <i>J. Mol. Biol.</i> 211: 679-682, 1990.
SM	BM	Bottenstein and Sato, "Growth of a rat neuroblastoma cell line in serum-free supplemented medium," <i>Proc. Natl. Acad. Sci. USA</i> 76(1): 514-517, 1979.
SM	BN	Brecknell et al., "Bridge grafts of Fibroblast Growth Factor-4-Secreting Schwannoma Cells Promote Functional Axonal Regeneration in the Nigrostriatal Pathway of the Adult Rat," <i>Neuroscience</i> 74(3): 775-784, 1996.
SM	BO	Brockes et al., "Studies on Cultured Rat Schwann Cells. I. Establishment of Purified Populations from Cultures of Peripheral Nerve," <i>Brain Research</i> 165: 105-118, 1979.
SM	BP	Brook et al., "Morphology and Migration of Cultured Schwann Cells Transplanted Into the Fimbria and Hippocampus in Adult Rats," <i>GLIA</i> 9: 292-304, 1993.

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INFORMATION DISCLOSURE STATEMENT (See Appendix A if necessary)				APPLICANTS Orest W. Blaschuk et al.			
				FILING DATE January 29, 2002		GROUP ART UNIT Not Yet Assigned	
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
SSM	CA	Byers et al., "Fibroblast Growth Factor Receptors Contain a Conserved HAV Region Common to Cadherins and Influenza Strain A Hemagglutinins: A Role in Protein-Protein Interactions?," <i>Developmental Biology</i> 152: 411-414, 1992.					
SSM	CB	Cardarelli et al., "The Collagen Receptor $\alpha 2\beta 1$, from MG-63 and HT1080 Cells, Interacts with a Cyclic RGD Peptide," <i>The Journal of Biological Chemistry</i> 267(32): 23159-23164, 1992.					
SSM	CC	Carlstedt et al., "Nerve Fibre Regeneration Across the PNS-CNS Interface at the Root-Spinal Cord Junction," <i>Brain Research Bulletin</i> 22: 93-102, 1989.					
SSM	CD	Cepek et al., "Expression of a candidate cadherin in T lymphocytes," <i>Proc. Natl. Acad. Sci. USA</i> 93: 6567-6571, 1996.					
SSM	CE	Chuah et al., "Differentiation and survival of rat olfactory epithelial neurons in dissociated cell culture," <i>Developmental Brain Research</i> 60: 123-132, 1991.					
SSM	CF	Craig et al., "Concept and Progress in the Development of RGD-Containing Peptide Pharmaceuticals," <i>Biopolymers (Peptide Science)</i> 37: 157-175, 1995.					
SSM	CG	Doherty and Walsh, "CAM-FGF Receptor Interactions: A Model for Axonal Growth," <i>Molecular and Cellular Neuroscience</i> 8(Article No. 0049): 99-111, 1996.					
SSM	CH	Doherty and Walsh, "Signal transduction events underlying neurite outgrowth stimulated by cell adhesion molecules," <i>Current Opinion in Neurobiology</i> 4: 49-55, 1994.					
SSM	CI	Doherty et al., "Neurite Outgrowth in Response to Transfected N-CAM and N-Cadherin Reveals Fundamental Differences in Neuronal Responsiveness to CAMS," <i>Neuron</i> 6: 247-258, 1991.					
SSM	CJ	Duncan et al., "Transplantation of oligodendrocytes and Schwann cells into the spinal cord of the myelin-deficient rat," <i>Journal of Neurocytology</i> 17: 351-360, 1988.					
SSM	CK	Fok-Seang et al., "An analysis of astrocytic cell lines with different abilities to promote axon growth," <i>Brain Research</i> 689: 207-223, 1995.					
SSM	CL	Fok-Seang et al., "Migration of Oligodendrocyte Precursors on Astrocytes and Meningeal Cells," <i>Developmental Biology</i> 171: 1-15, 1995.					
EXAMINER <i>[Signature]</i>				DATE CONSIDERED 3/12/02			
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SM	DA	Franz, "Percutaneous Absorption. On The Relevance Of In Vitro Data," <i>The Journal of Investigative Dermatology</i> 64(3): 190-195, 1975.
SM	DB	Franz, "The Finite Dose Technique as a Valid <i>in Vitro</i> Model for the Study of Percutaneous Absorption in Man," <i>Curr. Probl. Dermatol.</i> 7: 58-68, 1978.
SM	DC	Ghirnikar and Eng, "Astrocyte-Schwann Cell Interactions in Culture," <i>GLIA</i> 11: 367-377, 1994.
SM	DD	Gumbiner et al., "The Role of the Cell Adhesion Molecule Uvomorulin in the Formation and Maintenance of the Epithelial Junctional Complex," <i>The Journal of Cell Biology</i> 107: 1575-1587, 1988.
SM	DE	Iruela-Arispe et al., "Expression of SPARC during Development of the Chicken Chorioallantoic Membrane: Evidence for Regulated Proteolysis In Vivo," <i>Molecular Biology of the Cell</i> 6: 327-343, 1995.
SM	DF	Laird et al., "Gap Junction Turnover, Intracellular Trafficking, and Phosphorylation of Connexin43 in Brefeldin A-treated Rat Mammary Tumor Cells," <i>The Journal of Cell Biology</i> 131(5): 1193-1203, 1995.
SM	DG	Lee et al., "Expression of the Homotypic Adhesion Molecule E-Cadherin by Immature Murine Thymocytes and Thymic Epithelial Cells," <i>Journal of Immunology</i> 152: 5653-5659, 1994.
SM	DH	Letourneau et al., "Interactions of Schwann Cells with Neurites and with Other Schwann Cells Involve the Calcium-dependent Adhesion Molecule, N-cadherin," <i>Journal of Neurobiology</i> 22(7): 707-720, 1991.
SM	DI	Liuzzi and Lasek, "Astrocytes Block Axonal Regeneration in Mammals by Activating the Physiological Stop Pathway," <i>Science</i> 237: 642-645, 1987.
SM	DJ	Lutz et al., "Secondary Structure of the HAV Peptide Which Regulates Cadherin-Cadherin Interaction," <i>Journal of Biomolecular Structure & Dynamics</i> 13(3): 447-455, 1995.
SM	DK	Matsuzaki et al., "cDNAs of Cell Adhesion Molecules of Different Specificity Induce Changes in Cell Shape and Border Formation in Cultured S180 Cells," <i>The Journal of Cell Biology</i> 110: 1239-1252, 1990.

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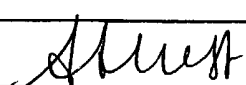
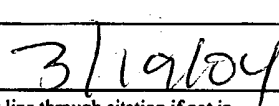
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SSM	EA	McCarthy and Vellis, "Preparation of Separate Astroglial and Oligodendroglial Cell Cultures from Rat Cerebral Tissue," <i>J. Cell Biology</i> 85: 890-902, 1980.
SSM	EB	Mege et al., "Construction of epithelioid sheets by transfection of mouse sarcoma cells with cDNAs for chicken cell adhesion molecules," <i>Proc. Natl. Acad. Sci. USA</i> 85: 7274-7278, 1988.
SSM	EC	Moran, "The Protein Delivery Service. Advances in technologies for delivering proteins and peptides in therapeutically useful forms," <i>Pharmaceutical Forum Issue</i> 6: 4-7, 1996.
SSM	ED	Munro and Blaschuk, <i>Cell Adhesion and Invasion in Cancer Metastasis</i> , R.G. Landes Company, Austin, TX, 1996, Chapter 3, "The Structure, Function and Regulation of Cadherins," pp. 17-34.
SSM	EE	Munro et al., "Characterization of Cadherins Expressed by Murine Thymocytes," <i>Cellular Immunology</i> 169(Article No. 0123): 309-312, 1996.
SSM	EF	Newton et al., "N-Cadherin Mediates Sertoli Cell-Spermatogenic Cell Adhesion," <i>Developmental Dynamics</i> 197: 1-13, 1993.
SSM	EG	Nose et al., "Localization of Specificity Determining Sites in Cadherin Cell Adhesion Molecules," <i>Cell</i> 61: 147-155, 1990.
SSM	EH	Orr, "Angiogenesis Research Offers New Approaches to Treatment of Disease," <i>Genetic Engineering News</i> , pp. 15-16, 42, May 1, 1996.
SSM	EI	Overduin et al., "Solution Structure of the Epithelial Cadherin Domain Responsible for Selective Cell Adhesion," <i>Science</i> 267: 386-389, 1995.
SSM	EJ	Redies and Takeichi, "Cadherins in the Developing Central Nervous System: An Adhesive Code for Segmental and Functional Subdivisions," <i>Developmental Biology</i> 180: 413-423, 1996.
SSM	EK	Saffell et al., "Expression of a Dominant Negative FGF Receptor Inhibits Axonal Growth and FGF Receptor Phosphorylation Stimulated by CAMs," <i>Neuron</i> , pp. 231-242, February 1997.

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SSM	FA	Samanen et al., "Development of a Small RGD Peptide Fibrinogen Receptor Antagonist with Potent Antiaggregatory Activity in Vitro," <i>J. Med. Chem.</i> 34(10): 3114-3125, 1991.					
SSM	FB	Shapiro et al., "Structural basis of cell-cell adhesion by cadherins," <i>Nature</i> 374: 327-337, 1995.					
SSH	FC	Starzinsky-Powitz, E.A., "The putative role of cell adhesion molecules in endometrisis," <i>Mol. Med. Today</i> 5(7): 304-309, 1999.					
SSA	FD	Tsutsui et al., "Expression of Cadherin-Catenin Complexes in Human Leukemia Cell Lines," <i>J. Biochem.</i> 120: 1034-1039, 1996.					
SSM	FE	Wickelgren, "Breaking the Skin Barrier," <i>PS</i> 12: 86-88, 1996.					
SSM	FF	Willems et al., "Cadherin-dependent cell aggregation is affected by decapeptide derived from rat extracellular super-oxide dismutase," <i>FEBS Letters</i> 363: 289-292, 1995.					
SSA	FG	Williams, E.A., "A novel family of cyclic peptide antagonists suggests that N-cadherin specificity is determined by amino acids that flank the HAV motif," <i>J. Biol. Chem.</i> 275(6): 4007-4012, February 11, 2000.					
SSA	FH	Williams et al., "Activation of the FGF Receptor Underlies Neurite Outgrowth Stimulated by L1, N-CAM, and N-Cadherin," <i>Neuron</i> 13: 583-594, 1994.					
SSM	FI	Williams et al., "The Primary Structure of Hen Ovotransferrin," <i>Eur. J. Biochem.</i> 122: 297-303, 1982.					
	FJ						
	FK						
	FL						
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